



Shri Shivaji Education Society, Amravati's
SHRI SHIVAJI SCIENCE & ARTS COLLEGE,
CHIKHLI, DIST. BULDANA (M.S.) 443 201
NAAC 'B' GRADE



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प्रती,
आगार प्रमुख,
चिखली आगार,
चिखली.

विषय :- सहल नेण्याकरीता बस मिळणेबाबत.

महोदय,

श्री शिवाजी विज्ञान व कला महाविद्यालय चिखली यांची सहल ५.०२.२०२० व ६.०२.२०२० रोजी आयोजित केली आहे. तरी आपण त्यास संमती दयावी अशी विनंती.

सहलीचा मार्ग :-

१. जैन ईरीगेशन जळगांव
२. गांधी फॉउन्डेशन जळगांव
३. तोरणमाळ

प्राचार्य
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We Educate, Inspire and Empower...

Tour Report

Shri Shivaji science and art college chikhli department of botany organize an educational tour for two days 4th and 5th february for third year students of biology group at Toranmal Hill station and Jain Irrigation Institute of Jalgon. We are about 40 students and 5 teachers. Dr Pochhi mam head of department of botany, Prof. Gawande sir, Prof. Kolte sir from department of botany and Prof. Shinde sir from department of microbiology.

We are decide to visit firstly Toranmal Hill station and then to Jain Irrigation institute (Tissue culture technique center) of Jalgaon and then Gandhi foundation.

At about 11:00 PM we were gathered together at college campus after that teachers gives us some instruction and collect the permission letter from all students and at about 11:50 PM we leave the our college campus, we are very excited to visit the Toranmal hill station, we enjoy the travelling very much as we do many activities like dancing, singing and playing many games etc during travelling.

The aim of this tour is to study biodiversity and Tissue culture technique.

(A) Aim:-

To study Biodiversity of Toranmal Hill station.

Introduction:-

Toranmal is a small plateau with an

approximate area of 41.43 sq kilometer. The plateau has soccer like shape from which a stream flow across the plateau from south to north. In southern part of plateau stream is bounded and form the 'Yashwant lake' toward north is 'Lotus lake' which is always covered with lotus flower and beautiful water in shita Khai.

Location of Toranmal:-

Toranmal is a Hill station in the municipal council of Nandurbar district in ~~dia~~ India (Maharashtra). It is located in Satpura range.

Height:-

The Toranmal hill station is located at height about 1,150 meter or 3,770 Ft above mean sea level.

To reach at Toranmal hill station we climb about 25-26 km ghat section which is consist of seven ghat or steps. Each step having the name of plant as it contain particular plant species in each step. Toranmal is surrounded with dense forest which having different species plant and animal i.e different flora and fauna.

Seven Steps of Toranmal:-

step 1st :- Tectona grandis (Sagwan) :-

The name of

of this step is due to it contain all the species *Tectona grandis*. We see taller plants of *Tectona grandis* with some dry fruit

Step 2nd :- Bambusa Vulgaris (Bamboo) :-

In this step we see large straight growing plants of bamboo i.e. *Bambusa vulgaris* which is grown in bunches. Many species of bamboo are found in this step

Step 3rd :- Enseta Superbum (Rankeli) :-

This step is loded with different species *Enseta superbum*. We see the plants are grown about 12 ft in high. Some of them having a fruit and some are having inflorescences.

Step 5th :- Buchanania lanzan (Charoli) :-

This step is dominated with deciduous tall tree of *Buchanania lanzan* which is grown around 18 cm tall and in this stage we also see the animal like monkey

Step 6th :- Carissa Carandas (Karwand) :-

In this step we see the network of different species of *Carissa Carandas* plants with unmaturred fruits which is green in colour and berry shaped & some plant having flower also

Step 7th :- Syzygium Cumini (Jambhal) :-

In this step we see large evergreen plant of *Syzygium* grown about 19-20ft

View points :-

After reaching to toranmal at about 2 PM we take lunch and then go to see different view point. Firstly we visit

1) Yashavant lake :-

'Yashavant lake' is a beautiful natural lake spreading over an area of 1.5 sq km. The lake derives its name from "Yashwantrao Chavan, the former chief Minister of Maharashtra". This lake have beautiful boating point we enjoy very much at this point we take photos of this lake and then proceed to see Shita Khai.

2) Shita Khai :-

Shita Khai is a place located nearly 1.5 km from toranmal. It comprises of a mesmerizing valley. This beautiful valley having a waterfall and Echo point. where we take a group photo with teachers & feel the beauty of nature. Then stepped forward on the way to see Medicinal plant garden


3) Medicinal Plant Garden / Botanical Garden :-


We also see the forest park or medicinal plant garden which is abundance with large no. of medicinal plant which having great medicinal value. In this garden teachers tell us about medicinal value of this plant & ~~form~~ which diseases it is useful. The forest having plant like Adhatoda Vasica, Oscimum Sanctum, Zingiber officinale, Sapindus mukorossi, Rauwolfia Vomitoria etc.

Lotus Lake :-

The lotus lake is prime attraction in Toranmal, locally known as Kamal Talao, the lake is abundant with plenty of lotus flowers that magnify the beauty of this place. From this we take some species of lotus plant for our college. Then we leave the toranmal and travelled toward Shirpur then at about 10:30 PM we take a dinner ~~and~~ on dhaba located near Shirpur after taking our meal we move toward rooms booked by teachers where we take a rest and in next morning we tea and breakfast & go to see R.C. Patel's institute of pharmaceutical education & research. & then travelled to Jalgaon.

In Jalgaon we spent 2-3 hrs in Gandhi Museum. The foundation is initiator and promoter of "Gandhi Teerth" an international centre for Gandhian study, research & dialogues.

 **जैन
टिश्यूकल्चर**
अधिक उत्पादन - अधिकाधिक नफा.

 **Jain
Tissue-Culture**
Better Yield - Greater Profits.



Aim:-

To study Tissue culture Aspects at Jain Irrigation Institute Jalgaon.

Introduction:-

It is located in Jalgaon district. On second of the trip we reach to Jalgaon & there we see the Jain tissue culture technique center where we see the primary and secondary hardening of banana plant and collect more information about the hardening process from teachers and the Guide. Teachers tell us about the all process involve in such as selection of explant, preparation of MS media inoculation and hardening, after that see the different type of farming such as aeroponics, hydroponics and vertical farming.

1) Primary Hardening: Greenhouses :-

In vitro produced

plantlets are removed from the glass jar, washed and graded for quality after that plantlets are planted into trays filled with soilless peat mix growing media. These plantlets are then hardened under controlled micro-climatic condition in specially designed poly tunnels or benches. In Jain Institute are different polyhouses are build up for the purpose of primary hardening.

2) Secondary Hardening:-

The plantlet after primary hardening are transferred to polybags filled with

Potting mixture and grown under shade house for 6-8 weeks this is called secondary hardening. We see different shade house and plantlet in secondary hardening phase and then we move to see the vertical farming.

Vertical farming:

Vertical farming is practice of growing crops in vertically stacked layer. where we see the plants grown on wall having proper system water supply and nutrient supply.

Vertical farming include,

* Hydroponics:

The soilless farming, In this farming plants are grown in water or nutrient liquid.

* Aeroponics:

In this type of farming plants are grown in air or mist environment without use of soil & aggregate medium.

Then after this in the evening we leave jalgaon & reached to chikhli at 12 PM with unforgettable memories of Tarmal hill, station Gandhi foundation & Jain Institute.

Study Tour

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जैन
टिफ्टकल्चर

जीविक उपार्जन अधिकाधिक नया
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GANDHI
TEERTH
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